	Application No.	Applicant(s)	(My	
Notice of Allewshilling	10/739,147	SIMAKOV ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Douglas N. Washburn	2863		
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. X This communication is responsive to <u>amendment filed 5 De</u>	ecember 2005.		1	
2. X The allowed claim(s) is/are 1-8 and 11-17.				
3. ⊠ Acknowledgment is made of a claim for foreign priority un a) ⊠ All b) ☐ Some* c) ☐ None of the:				
1. 🛮 Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or N ition is deficient.	OTICE OF	
5. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the d).	back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. N AL MATERIAL.	Note the	
•				
Attachment(s)	5. Notice of Informal F	Patent Annlication /PT/)-152\	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal P		/	
	Paper No./Mail Da	te .		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	08), 7. ⊠ Examiner's Amenda	ment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	owance	
of Biological Material	9.			
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Art Unit: 2863

DETAILED ACTION EXAMINER'S AMENDMENT

Drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Annotate drawing figures 1-5, 6A, 6B, 7A, 7B, 8A and 8B, submitted 29 October 2004, "Replacement Sheet".

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Response to Amendment

2 Applicant amendment overcomes §102(b) rejection of claims 1, 3, 5, 7, 8 and 12 and the rejection is withdrawn.

Applicant amendment overcomes §103(a) rejection of claims 2, 4, 6 and 11 and the rejection is withdrawn.

Allowable Subject Matter

3 Claims 1-8 and 11-17 are allowed.

Reasons for allowing claims 13-15 were indicated in office action mailed 6 June 2005.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites, in part, "said input object defining a characteristic part of a cutting tool, the input module means permitting the selection of input objects and inputting their input parameters and making a supply of measurement objects accessible, from among which measurement objects are selected and linked with input objects or input parameters". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claims 2-7 depend from claim 1.

Claim 8 recites, in part, "actuating a measurement program module for generating, from the chosen selection of measurement objects and their linkage with input objects, a measurement program for controlling a measuring device, wherein there is determined from the selected input objects, which are each linked with a machining operation and from the associated inputs, a geometrical model that defines the surface of a tool, wherein the geometric model is displayed". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claims 11 and 12 depend from claim 8.

Claim 16 recites, in part, "display module means for visually displaying a geometric model that defines the surface of a tool resulting from the chosen selection of input objects and the inputs". This feature in combination with the remaining claimed structure avoids the prior art of record.

input objects and the inputs". This feature in combination with the remaining claimed structure avoids the prior art of record.

Claim 17 recites, in part, "measurement parameters are defined on the basis of the selected input objects and associated input parameters and wherein inspection points are among the measurement parameters". This feature in combination with the remaining claimed structure avoids the prior art of record.

It is these limitations, which are not found, taught or suggested in the prior art of record, and are recited in the claimed combination that makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas N. Washburn whose telephone number is (571) 272-2284. The examiner can normally be reached on Monday through Thursday 6:30 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

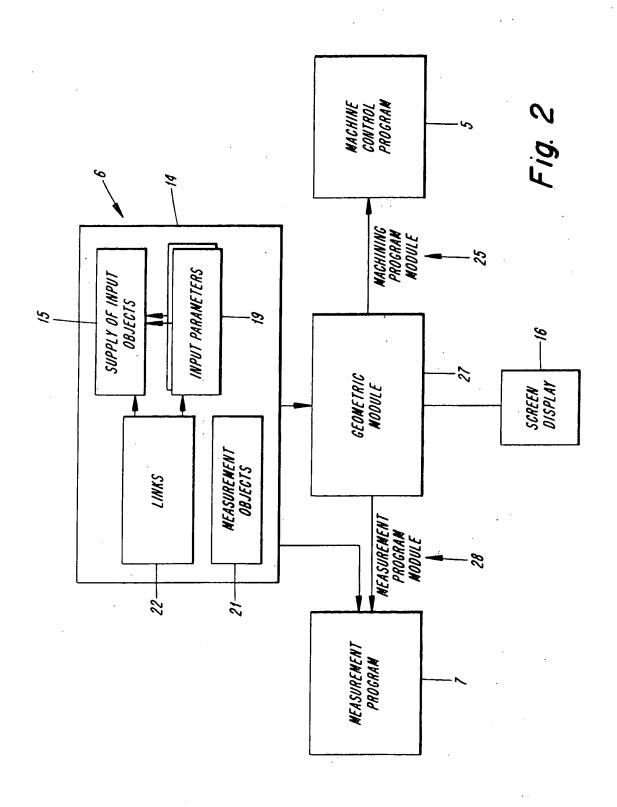
Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DNW

John Barlow /
Supervisory Patent Examiner
Technology Center 2800

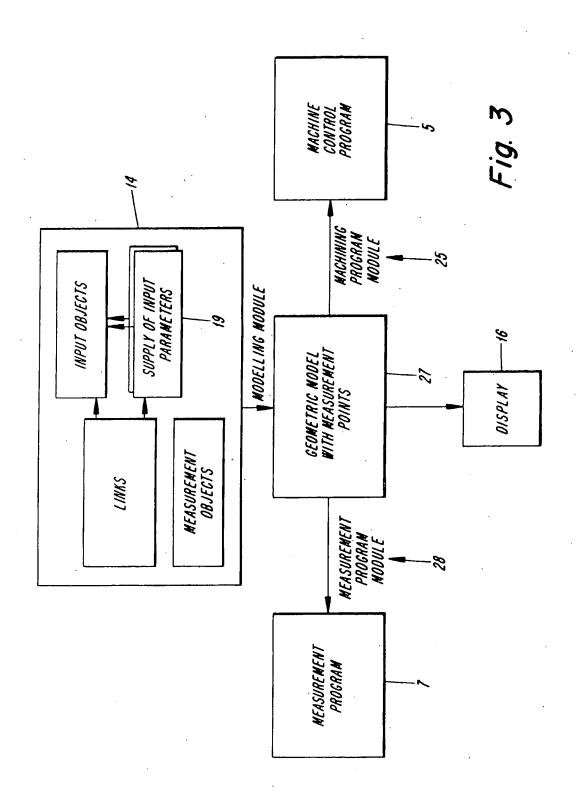
DW 12/15/05 approved

APPLN. FILING DATE: DECEMBER 19, 2003
TITLE: APPARATUS FOR INTEGRATED TOOL
MANUFACTURE AND METHOD THEREFOR
INVENTOR(S): MICHAEL SIMAKOV ET AL.
APPLN. SERIAL NO.: 10/739,147 SHEET 2 OF 11



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SHEET 30

SHEET 3 OF 11

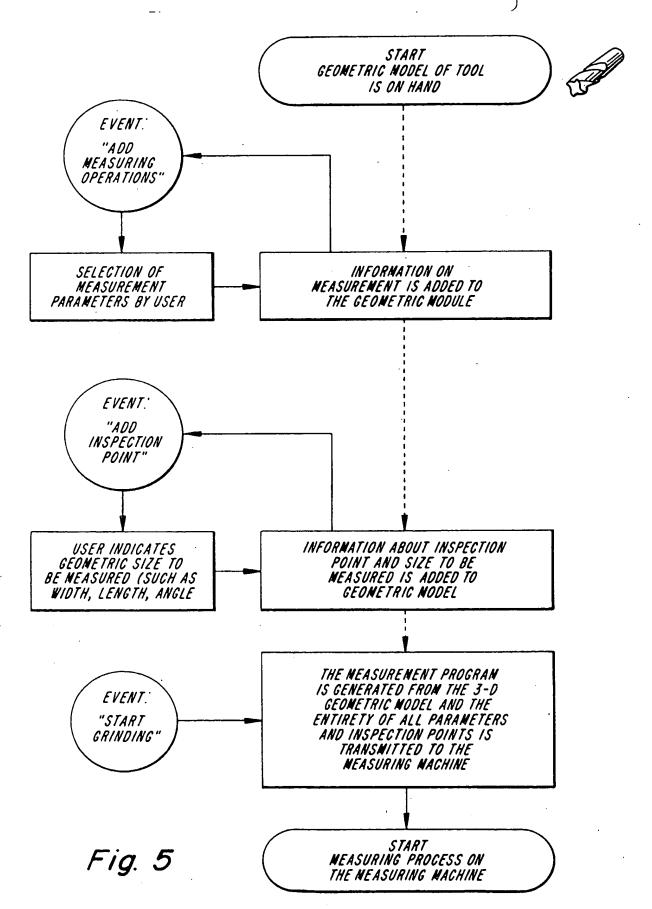


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SHEET 40 START TOOL INPUT Fig. 4 3-D GEOMETRIC MODULE OF AN UNNACHINED BLANK OR A PARTLY MACHINED TOOL EVENT: "ADD CHIP SPACE" OR "ADD A NEW OPERATION" CHIP SPACE OBJECT IS GENERATED WITH DEFAULT PARAMETRIZING USER PARAMETRIZES CHIP SPACE OBJECT THE 3-DIMENSIONAL VOLUME THREE-DIMENSIONAL DEFINED BY THE GRINDING PATH AND GRINDING PATH OF THE GRINDING WHEEL IS SUBTRACTED THE GRINDING WHEEL FROM THE 3-D GEOMETRIC MODULE IS GENERATED AND (SIMULATION OF MATERIAL REMOVAL)-STORED IN MEMORY NEW GEOMETRIC MODULE EVENT. AN NC PROGRAM IS GENERATED "START FROM ALL THE GRINDING PATHS AND GRINDING" TRANSMITTED TO THE MACHINE START GRINDING PROCESS ON THE MACHINE

SHEET 4 OF 11

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SHEET 50

SHEET 5 OF 11



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APPLN. SERIAL NO.: 10/739,147 SHEET 6 OF 11

Soft-XXI Grinding Studio - IMTS_02 Wheel Machine Help Edit View Color Tool File StepTool ldn: 87.43° Simulate CG Grind : 50.33° C 0.0 % Type G30 Position | X. 295.697 mm Υ 245.350 mm Primary - Tooth 2 ► 54.751 mm Operation Wheel Grind Probing, End Of Tool P \square F Fluting 1 1V1 lacksquare1119 1 C Clearance Step 1, Od \square C Clearance Step 2, Line 111/9 1 17 \square 11V9 C Clearance Step 2, Od \square 12V9 **G** ablaGash 111/9 Clearance Ef C lacksquareV **Profiles** Wheels Machine ▼ Cross Section ▼ Measurement Panels Script Error Messages ▼

FIG.6A

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INVENTOR(S): MICHAEL SIMAKOV FT AL

INVENTOR(S): MICHAEL SIMAKOV ET AL. APPLN. SERIAL NO.: 10/739,147 SHEET 7 OF 11

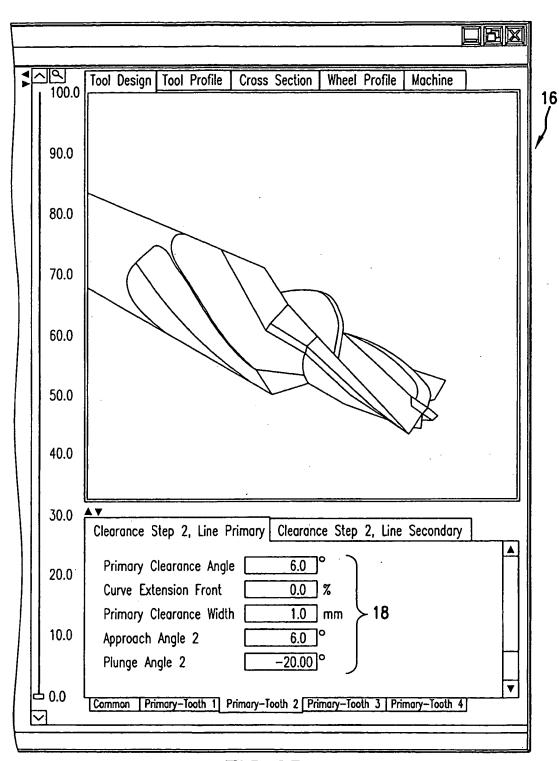


FIG.6B

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TITLE: APPARATUS FOR INTEGRATED TOOL
MANUFACTURE AND METHOD THEREFOR
INVENTOR(S): MICHAEL SIMAKOV ET AL.
APPLN. SERIAL NO.: 10/739,147 SHEET 80

SHEET 8 OF 11

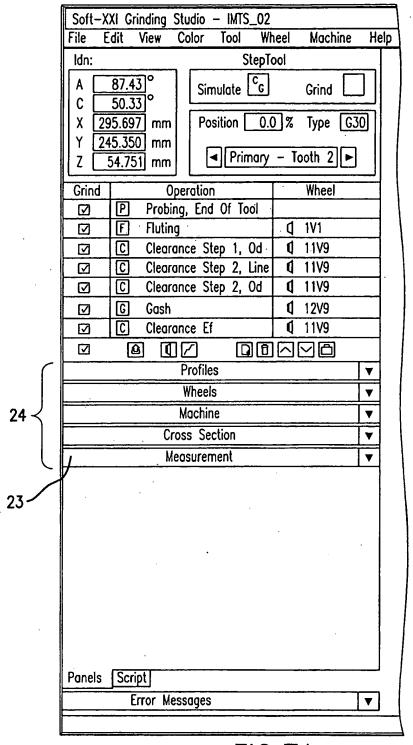


FIG.7A

APPLN. FILING DATE: DECEMBER 19, 2003

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VANUFACTURE AND METHOD THEREFOR
INVENTOR(S): MICHAEL SIMAKOV ET AL.
APPLN. SERIAL NO.: 10/739,147 SHEET 9 0

SHEET 9 OF 11

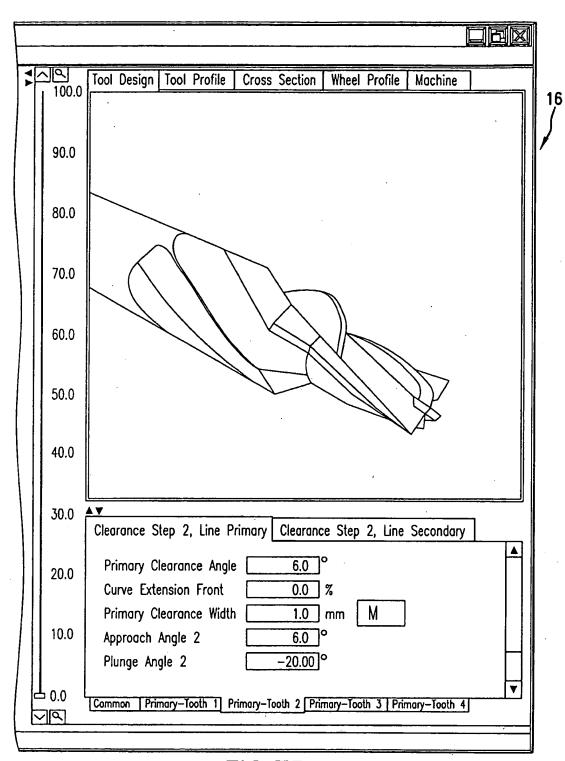


FIG.7B

APPLN. FILING DATE: DECEMBER 19, 2003
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MANUFACTURE AND METHOD THEREFOR
INVENTOR(S): MICHAEL SIMAKOV ET AL.
APPLN. SERIAL NO.: 10/739,147 SHEET 10 OF 11

Soft.	-XXI Grinding Studio — IMTS_02	7		
File Edit View Color Tool Wheel Machine Help				
Idn: StepTool				
A	07.470	╗╽┈		
ll c	50.33 Simulate G Grind Grind			
X 295.697 mm Position 0.0 % Type G30				
Y 245.350 mm				
Z 54.751 mm				
Grine	d Operation Wheel	=		
	P Probing, End Of Tool			
V	F Fluting (1 1V1			
Ø	C Clearance Step 1, 0d (1 11V9			
Ø	C Clearance Step 2, Line (1 11V9			
Ø	C Clearance Step 2, Od (1 11V9			
Ø	G Gash 1 12V9			
Ø	C Clearance Ef (1 11V9			
Profiles ▼				
Wheels ▼		▼		
Machine ▼				
Cross Section ▼				
Measurement X				
Po	Coordinates Ø Move			
<u>A</u>	23.176 -8.035 1.510 16.352 N1-N1			
В	23.139 -8.054 0.286 16.119 N1-N1			
Measurement Function				
Measurement Function Distance and Angles ▼				
Measured Distance mm				
Measured Angle				
Panels Script				
Error Messages ▼				
	Move: Fluting Tooth 2			

FIG.8A

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WANUFACTURE AND METHOD THEREFOR
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APPLN. SERIAL NO.: 10/739,147 SHEET 11

SHEET 11 OF 11

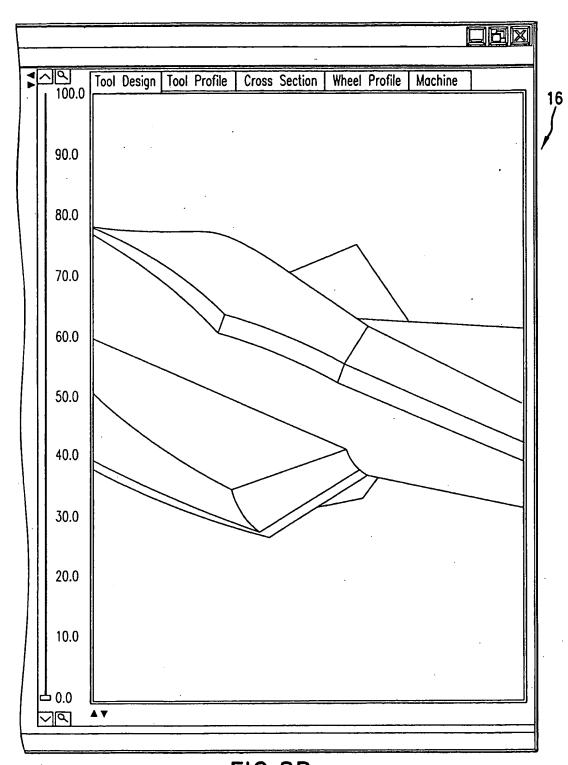


FIG.8B